PROCESSES AND PROPERTIES INDEX

Ed

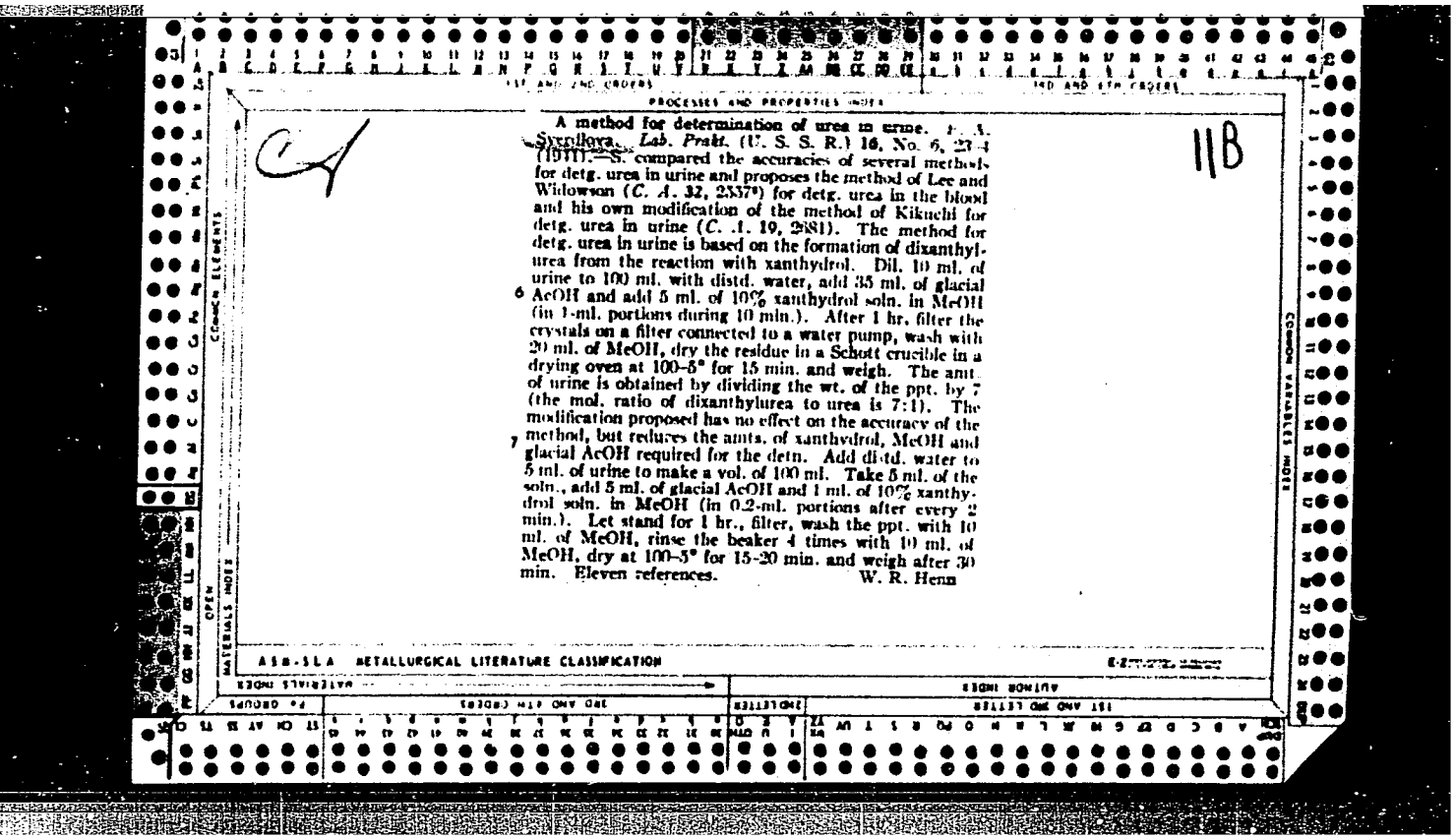
11g

Protein metabolism in developing malignant neoplasms. I. Nitrogen balance in rabbits affected with Brown Pearce cancer. E. A. Svedlina. Dok. Akad. Nauk (U. S. S. R.) 54, No. 3, [illegible]-101(in English, 101 [illegible]) (1939).

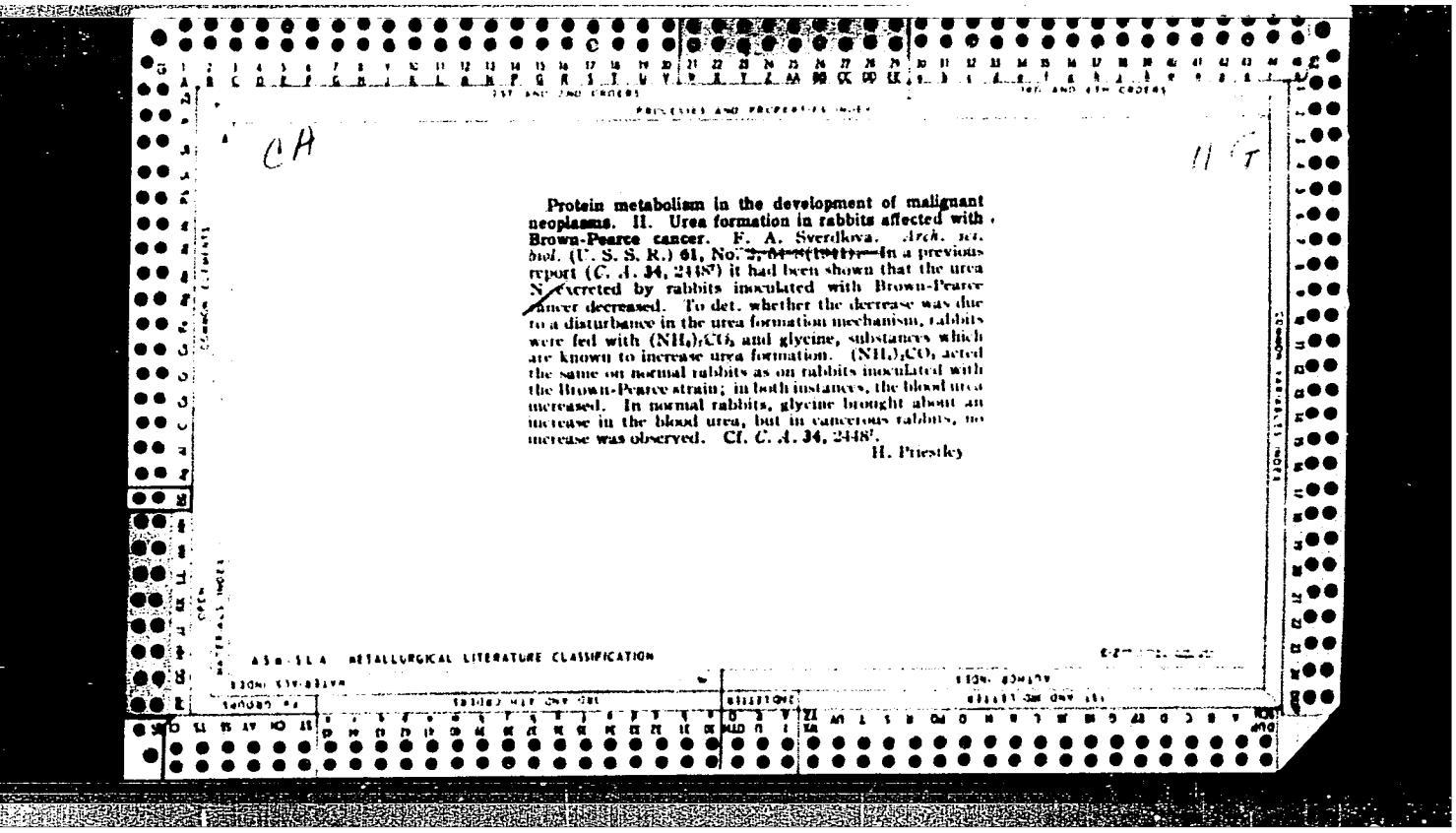
No evident changes were noted in the N balance of rabbits immediately after testicular inoculation with Brown-Pearce tumor. On the 9th–10th day after inoculation a distinct decrease in urea-N excretion occurs, which is not connected with the development of metastases in the liver and kidneys. The total N of the urine does not show any characteristic changes during tumor development.

S. A. Karjala

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



A method for determination of urea in urine. [illegible] A. Syrolleva. *Lab. Prakt.* (U. S. S. R.) **16**, No. 6, 27-4 (1941).—S. compared the accuracies of several methods for detg. urea in urine and proposes the method of Lee and Widowson (*C. A.* **32**, 2537⁹) for detg. urea in the blood and his own modification of the method of Kikuchi for detg. urea in urine (*C. A.* **19**, 2881). The method for detg. urea in urine is based on the formation of dixanthylurea from the reaction with xanthydrol. Dil. 10 ml. of urine to 100 ml. with distd. water, add 35 ml. of glacial
6 AcOH and add 5 ml. of 10% xanthydrol soln. in MeOH (in 1-ml. portions during 10 min.). After 1 hr. filter the crystals on a filter connected to a water pump, wash with 20 ml. of MeOH, dry the residue in a Schott crucible in a drying oven at 100–5° for 15 min. and weigh. The amt. of urine is obtained by dividing the wt. of the ppt. by 7 (the mol. ratio of dixanthylurea to urea is 7:1). The modification proposed has no effect on the accuracy of the
7 method, but reduces the amts. of xanthydrol, MeOH and glacial AcOH required for the detn. Add distd. water to 5 ml. of urine to make a vol. of 100 ml. Take 5 ml. of the soln., add 5 ml. of glacial AcOH and 1 ml. of 10% xanthydrol soln. in MeOH (in 0.2-ml. portions after every 2 min.). Let stand for 1 hr., filter, wash the ppt. with 10 ml. of MeOH, rinse the beaker 4 times with 10 ml. of MeOH, dry at 100–5° for 15–20 min. and weigh after 30 min. Eleven references. W. R. Henn



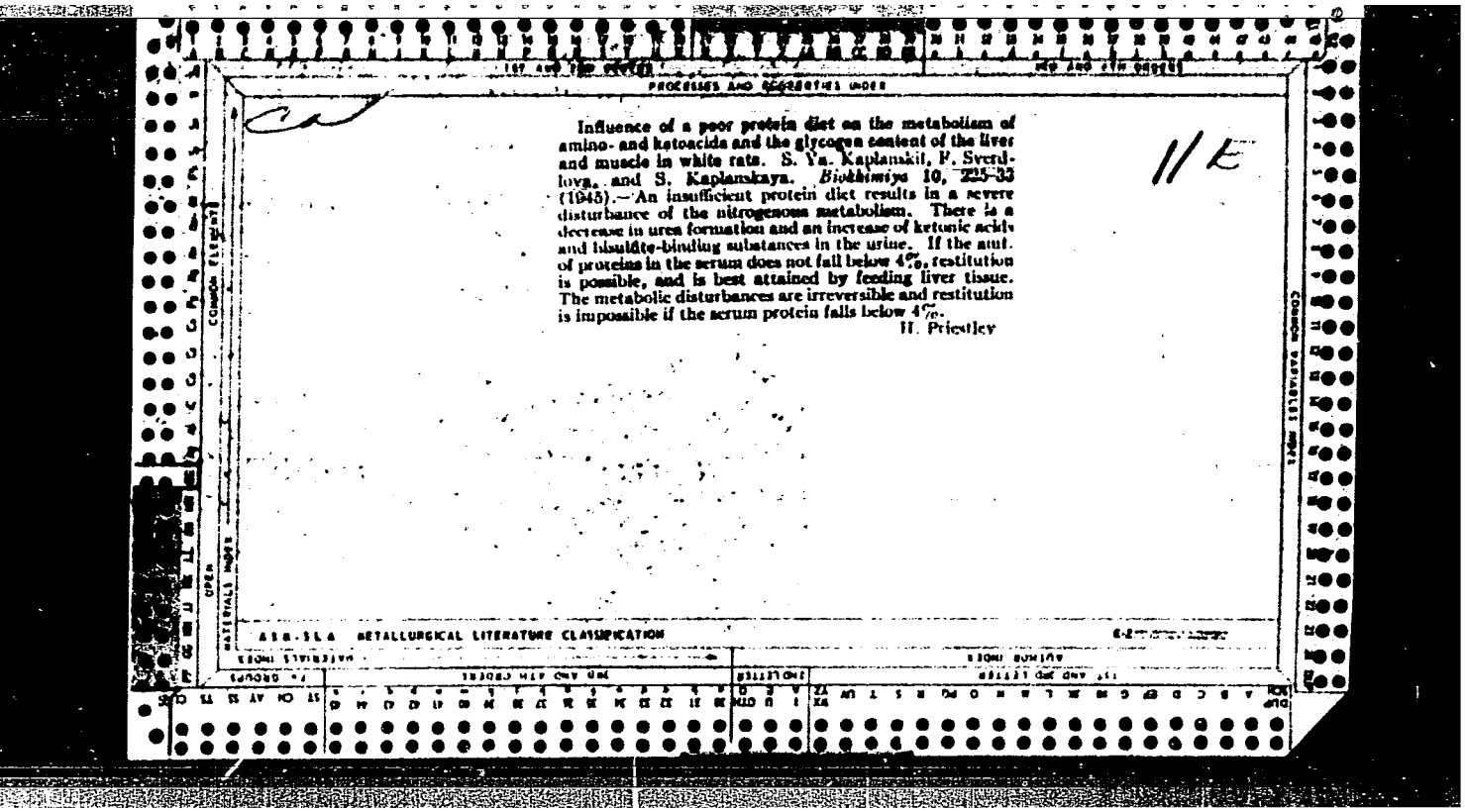
CA

11 T

Protein metabolism in the development of malignant neoplasms. II. Urea formation in rabbits affected with Brown-Pearce cancer. F. A. Sverdlova. *Arch. sci. biol.* (U. S. S. R.) **61**, No. 2, 61–6 (1941).—In a previous report (*C. A.* **34**, 2448[7]) it had been shown that the urea N excreted by rabbits inoculated with Brown-Pearce cancer decreased. To det. whether the decrease was due to a disturbance in the urea formation mechanism, rabbits were fed with $(NH_4)_2CO_3$ and glycine, substances which are known to increase urea formation. $(NH_4)_2CO_3$ acted the same on normal rabbits as on rabbits inoculated with the Brown-Pearce strain; in both instances, the blood urea increased. In normal rabbits, glycine brought about an increase in the blood urea, but in cancerous rabbits, no increase was observed. Cf. *C. A.* **34**, 2448[7].

H. Priestley

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



Influence of a poor protein diet on the metabolism of amino- and ketoacids and the glycogen content of the liver and muscle in white rats. S. Ya. Kaplanskiĭ, F. Sverdlova, and S. Kaplanskaya. *Biokhimiya* 10, 225–33 (1945).—An insufficient protein diet results in a severe disturbance of the nitrogenous metabolism. There is a decrease in urea formation and an increase of ketonic acids and bisulfite-binding substances in the urine. If the amt. of proteins in the serum does not fall below 4%, restitution is possible, and is best attained by feeding liver tissue. The metabolic disturbances are irreversible and restitution is impossible if the serum protein falls below 4%.

H. Priestley

11E

SVERDLOVA, F.A.

Oxidation of keto- and dicarboxylic acids during protein deficiency in the food of young animals. Vop.med.khim. 3:257-262 '51. (MIRA 11:4)

1. Otdel fiziologii TSentral'nogo nauchno-issledovatel'skogo pediatricheskogo instituta Ministerstva zdravookhraneniya RSFSR, Moskva.
(ACIDS, ORGANIC) (PROTEIN METABOLISM)
(OXIDATION, PHYSIOLOGICAL)

SHTEMLER, M.Ye.; SVERDLOVA, G.M., redaktor; DVORKINA, B.A., redaktor.

[Aviation industry in foreign countries; a collection of translations and references] Aviatsionnaia promyshlennost' zarubezhnykh stran; sbornik perevodov i referatov. Sostavil M.E. Shtemler. Pod obshchei red. G.M.Sverdlova i B.A. Dvorkina.[n.p.] Izd-vo BNT No.5 [Economic aspects of transport planes] Problemy ekonomichnosti transportnykh samoletov. 1946. 57 p. [Microfilm] (MLRA 8:9)

1. Russia (1923- U.S.S.R.) Ministerstvo aviatsionnoy promyshlennosti. Byuro novoy tekhniki.
(Aeronautics, Commercial)

TSEYTLIN, Roza Davydovna; NEMIROVSKIY, S.A., otvetstvennyy redaktor; SVERDLOVA, I.S., redaktor; BERESLAVSKAYA, L.Sh., tekhnicheskiy redaktor

[Leading fitters and solderers] Peredovye montery-spaishchiki. Moskva, Gos. izd-vo lit-ry voprosam sviazi i radio, 1956. 18 p. (MLRA 9:12)
(Solder and soldering)
(Telephone)

SEMENOV, Innokentiy Innokent'yevich; FROLOVA, Lyudmila Gur'yevna; GOLUBTSOV, I.Ye., otv. red.; SVERDLOVA, I.S., red.; SLUTSKIN, A.A., tekhn. red.

[Relay-terminal rural (VRS-20M) automatic telephone exchange with a capacity of twenty numbers; a collection of articles with a supplementary schematics folder]Sel'skaia relainaia okonechnaia ATS emkost'iu 20 nomerov (ATS VRS-20M); informatsionnyi sbornik s prilozheniem al'boma skhem. Moskva, Gos. izd-vo litry po voprosam sviazi i radio, 1961. 127 p. ___[Album of diagrams for the information collection on communications technology] Al'bom skhem k informatsionnomu sborniku po tekhnike sviazi. 23 p. 1961. (MIRA 15:3)

(Telephone, Automatic)

MOROZ, Nikolay Andreyevich; TOLMACHEV, Yuriy Aleksandrovich; KON'KOV, V.I., otv. red.; SVERDLOVA, I.S., red.; SHEFER, G.I., tekhn. red.

[Repair of telegraph apparatus and automated attachments] Remont telegrafnykh apparatov i pristavok avtomatizatsii. Moskva, Gos. izd-vo lit-ry po voprosam sviazi i radio, 1961. 239 p. (MIRA 14:11)
(Telegraph—Equipment and supplies)

KANTOR, L.Ya.; GUMELYA, A.N.; ROZENBERG, Ya.G.; AFANAS'YEV, A.P.; SAMORUKOV, D.A.; GUSEV, S.S.; DOGADIN, V.N.; RAMENSKIY, B.N.; PIONTKOVSKIY, B.A.; SVERDLOVA, I.S., red.; KARABILOVA, S.F., tekhn. red.

[Electric communications and wire broadcasting] Elektricheskaia sviaz' i radiofikatsiia. Moskva, Gos. izd-vo lit-ry po voprosam sviazi i radio, 1961. 607 p. (MIRA 14:5)
(Telephone) (Wire broadcasting)

SEMENOV, I.I.; KUTASHOV, P.D.; GOLUBTSOV, I.Ye., otv. red.; SVERDLOVA, I.S., red.; SHEFER, G.I., tekhn. red.

[New equipment for rural automatic telephone stations] Novoe oborudovanie dlia sel'skikh ATS; informatsionnyi sbornik. Moskva, Svia'izdat, 1962. 62 p. (MIRA 16:5)
(Telephone, Automatic)

FROLOV, Pavel Alekseyevich; TYULYAYEV, A.N., otv. red.; SVERDLOVA, I.S., red.; SLUTSKIN, A.A., tekhn. red.

[Small coaxial communication cables]Malogabaritnye koaksial'nye kabeli sviazi. Moskva, Sviaz'izdat, 1962. 76 p. (MIRA 15:9)

(Coaxial cables)

UDOVICHENKO, Anatoliy Matveyevich; VOROTSKAYA, Z.A., otv. red.; SVERDLOVA, I.S., red.; MARKOVH, K.G., tekhn. red.

[Principles of radio communication and wire broadcasting techniques]Osnovy tekhniki provodnoi i radiosviazi. Moskva, Sviaz'izdat, 1962. 366 p. (MIRA 16:2)
(Wire broadcasting) (Radio)

KANTOR, L.Ya.; GUMELYA, A.N.; ROZENBERG, Ya.G.; AFANAS'YEV, A.P.; SAMORUKOV, D.A.; GUSEV, S.S.; DOGADIN, V.N.; RAMENSKIY, B.N.; KARASIK, N.S.; PIONTKOVSKIY, B.A.; Prinimal uchastiye MEDOVAR, A.I.; SVERDLOVA, I.S., red.; ULANOVSKAYA, N.M., red.; MARKOCH, K.G., tekhn. red.

[Electrical communications and wire broadcasting] Elektricheskaia sviaz' i radiofikatsiia. [By] L.IA.Kantor i dr. Izd.2., dop. i ispr. Moskva, Sviaz'izdat, 1963. 672 p. (MIRA 16:8)

(Wire broadcasting) (Telecommunication)

LOGINOV, Anatoliy Georgiyevich. Prinimal uchastiye KARASIK, N.S.; KOKSHARSKIY, N.S. dots., retsenzent; SVERDLOVA, I.S., red.

[Organization, planning, and design of rural telephone systems] Organizatsiia, planirovanie i proektirovanie sel'skoi telefonnoi sviazi. Moskva, Izd-vo "Sviaz'," 1964. 147 p. (MIRA 17:7)

1. Leningradskiy elektrotekhnicheskiy institut svyazi im. M.A.Bonch-Bruyevicha (for Koksharskiy). 2. Starshiy inzhener Glavnogo upravleniya gorodskoy i sel'skoy telefon- svyazi i radiofikatsii Ministerstva svyazi SSSR (for Karasik).

YUZBASHEV, Suren Georgiyevich; SHKUTNIK, Eduard Stanislavovich; SVERDLOVA, M.A., nauchn. red.; GLAZUNOVA, Z.M., red. izd-va; SHERSTNEVA, N.V., tekhn. red.

[Principles of planning, accounting, and business accounting in designing and engineering research organizations] Osnovy planirovaniia ucheta i khozrascheta v proektnykh i izyskatel'nykh organizatsiiakh. Moskva, Gosstroiizdat, 1963. 338 p. (MIRA 16:12)
(Construction industry—Accounting)
(Architecture—Designs and plans)

BONFEL'D, Semen Markovich, uchitel' fiziki, izobretatel'; SVERDLOVA, O.G., red.; NAZAROVA, A.S., tekhn.red.

[Start of the future innovators in industry; from the practice of teaching physics] Nachalo puti budushchikh novatorov proizvodstva; iz opyta prepodavaniia fiziki. Moskva, Izd-vo "Znanie," 1962. 47 p. (Novoe v zhizni, nauke, tekhnike. XI seriia: Pedagogika, no.5) (MIRA 15:5)
(Physics—Study and teaching)

Electronic absorption spectra of benzene and its solutions in ethanol and hexane. V. M. Chulanovskii, T. G. Meister, and O. V. Sverdlova. *Vestnik Leningrad. Univ.* 10, No. 8, *Ser. Mat. Fiz. i Khim.* No. 3, 123–7(1955); cf. *C.A.* 49, 13770*i*.—The position and half-width of 2 benzene absorption bands (ν_1 = 39,225 and ν_2 = 38,295 cm.$^{-1}$) were studied as a function of the concn. of benzene in two different types of solvent, EtOH and hexane. The concns. varied from 0.0013% to 100%. Both bands, in both solvents, show a gradual pos. peak-frequency shift up to a displacement of about 120 cm.$^{-1}$ for concns. decreasing from 100% to about 5%. After this the position of both bands remains const. The half-width of ν_1 decreases by about 100 cm.$^{-1}$, and that of ν_2 decreases by about 80 cm.$^{-1}$, for both solvents, with the same concn. dependence as for the frequencies. These phenomena are explained on the basis of the vibrational structure of the electronic bands, by suggesting that the contour of the bands, in the main, is detd. by the strong vibrational "breathing" frequencies of benzene. A variation in concn. effects a redistribution of vibrational transition probabilities, and thus a change in the band contours. Since the changes were approx. the same in both solvents, it is postulated that the greatest interactions giving rise to band contour changes take place between the excited and unexcited benzene mols., rather than between solvent mols. and benzene. This also explains the constancy of frequency and band width at the lower concns. For instance, the av. sepn. of benzene molecules at a 1% concn. is about 25 A.

R. D. Kross

SOV/51-6-3-11/28

AUTHOR: Sverdlova, O.V.

TITLE: On the Effect of the Solvent on the Electronic Absorption Spectra of Benzene and Chlorbenzene (O vliyanii rastvoritelya na elektronnyye spektry pogloshcheniya benzola i khlorbenzola)

PERIODICAL: Optika i Spektroskopiya, 1959, Vol 6, Nr 3, pp 349-353 (USSR)

ABSTRACT: The author studied displacement of the absorption bands of benzene and chlorbenzene in the region of 2500-2700 Å in a large number of solvents. Benzene was used because its molecule is neutral and non-polar, because it dissolves easily in a large number of organic solvents and because its absorption bands in the near ultraviolet region are sufficiently narrow for observation of their shift. Chlorbenzene was investigated in order to find the effect of substitution and the dipole moment so produced on the interaction of chlorbenzene with solvents. The absorption spectra were obtained using a quartz spectrograph ISP-22. A krypton lamp GSVD-120 was used as the source of light. Positions of the absorption bands were determined with respect to the mercury

Card 1/4

On the Effect of the Solvent on the Electronic Absorption Spectra of Benzene and Chlorbenzene

(Fig.2). In each case dependence between the wave number of the absorption band and $(n^2 - 1)/(2n^2 + 1)$ of the solvent can be expressed by means of a straight line. This linear dependence indicates that the effect of solvents on the positions of the electron absorption bands of benzene and chlorbenzene is a polarisation shift with the solvent acting as a continuous polarising medium, i.e. each molecule of benzene or chlorbenzene is acted upon simultaneously by a large number of the solvent molecules. Local interactions between solvent and solute molecules produce departures from the linear relationships shown in Figs.1 and 2. Fig.3 gives the dependence of the width of the 38250 cm^{-1} absorption band of benzene on $(n^2 - 1)/(2n^2 + 1)$ of the solvent. The results of Fig.3 show that the absorption band width increases with increase of the refractive index of the solvent.

Acknowledgment is made to V.M. Chulanovskiy who directed this work. There are 4 figures, 1 table and 10 references,

Card 3/4 of which 3 are Soviet, 3 English, 1 German, 1 French,

SVERDLOVA, O.V.

PHASE I BOOK EXPLOITATION SOV/5151

Leningrad. Universitet

Molekulyarnaya spektroskopiya (Molecular Spectroscopy) [Leningrad] Izd-vo Leningr. univ., 1960. 198 p. 4,700 copies printed.

Resp. Ed.: F. I. Skripov; Eds.: Ye. V. Shchemeleva and V. D. Piastro; Tech. Ed.: S. D. Vodolagina.

PURPOSE: This collection of articles is intended for scientific workers, instructors and students of physics and chemistry. It may also be used by engineers and technicians employing molecular spectroscopy.

COVERAGE: The collection of articles describes spectroscopic studies of liquids and solutions, and includes data on applied molecular spectroscopy. Individual articles deal with the molecular interaction in solutions, and specifically with the hydrogen bond problem. Works on the optimum utilization of spectral apparatus and on the analytical application of molecular spectroscopy are also included.

Aspects of the structure of high and low molecular compounds and of molecular complexes are also covered. The collection was published in honor of the 70th birthday of Professor Vladimir Mikhaylovich Chulanovskiy, Soviet specialist in molecular spectroscopy and spectral analysis. There are no references.

TABLE OF CONTENTS:

(22)

IOFFE, Boris Veniaminovich; Prinimali uchastiye: TATARSKIY, V.B., prof.; FRENKEL', S.Ya., starshiy nauchnyy sotrudnik; RYSKIN, Ya.I., nauchnyy sotrudnik; SVERDLOVA, O.V., mladshiy nauchnyy sotrudnik; RAVDEL', A.A., red.; SHEYNINA, G.A., red.; ERLIKH, Ye.Ya., tekhn.red.

[Refractometric methods in chemistry] Refraktometricheskie metody khimii. Leningrad, Gos.nauchno-tekhn.izd-vo khim.lit-ry, 1960. 382 p. (MIRA 14:2)

1. Leningradskiy universitet (for Tatarskiy). 2. Institut vysokomolekulyarnykh soyedineniy AN SSSR (for Frenkel'). 3. Institut khimii silikatov AN SSSR (for Ryskin).
(Refractometry)

SVERDLOVA, Roza Markovna; SHEMAKHANSKIY, Viktor Timofeyevich; KUZNETSOV, A.T., red.; TURETSKIY, Sh.Ya., red.; ISHKOVA, A.K., red.; BABICHEVA, V.V., tekhn.red.

[Retail prices for textile notions and goods] Roznichnye tseny na tekstil'no-galantereinye tovary. Pod red. A.T.Kuznetsova i Sh.IA.Turetskogo. Moskva, Gos.izd-vo torg.lit-ry, 1960. 47 p. (MIRA 14:1)

(Notions (Merchandise)--Prices) (Textile fabrics--Prices)

SVERDLOVA, Sh.I (Tartu, Estonskaya SSR)

Tenth anniversary of the Tartu Republic Secondary Medical School. (MLRA 8:6)
Med.sestra no.5:31 My '55.
(TARTU--MEDICAL COLLEGES)

SVERDLOVA, S. M.

"The Clinical Aspects and Therapy of Diphtheritic Paralysis", Pediatrics, No. 2, 1948. Mar., Nerve Clinic, Central Sci. Res. Pediatric Inst., Min. Public Health RSFSR, -c1948-.

KRIGER, Yu.A.; SVERDLOVA, Ye.A.; VAYNSON, A.A.

Change in the physicochemical properties of erythrocytes caused by heating. Nauch. dokl. vys. shkoly; biol. nauki no.3:76-81 '64 (MIRA 17:8)

1. Rekomendovana kafedroy biofiziki Moskovskogo gosudaratvennogo universiteta.

ACCESSION NR: AP5005902 S/0020/65/160/003/0713/0716

20
19
B

AUTHOR: Kriger, Yu. A.; Sverdlova, Ye. A.

19

TITLE: Effect of gamma rays and vibration on the physical and chemical nature of red blood cells

SOURCE: AN SSSR. Doklady, v. 160, no. 3, 1965, 713-716

TOPIC TAGS: vibration, gamma radiation, biological effect, hemodynamics, erythrocyte, osmotic resistance, cation balance

ABSTRACT: The purpose of this experiment was to investigate the influence of gamma [illegible] properties and the cation [illegible] from which the [illegible] started from the plasma and played in a physiological [illegible], which varied from [illegible] ps and an amplitude [illegible] re, during, and after irradiation. All remaining measurements [illegible] after radiation. The storage temperature was 4C to reveal the max- [illegible] of radiation and vibration. It was found that neither 80 kr

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ACCESSION NR: AP5005902

nor subsequent vibration affected the dielectric or osmotic nature of human blood. The results held true for samples exposed to simultaneous radiation and vibration. Measurements of the release of calcium from erythrocytes 5—7 hr after irradiation [illegible] and 80-kr doses) and subsequent vibration (1-hr interval) revealed that [illegible] increased radiation dose, there was an increase in calcium release. Vibra- [illegible] did not intensify this process in either the experimental or control groups. This showed that sucrose had a far more deleterious effect on irradiated [illegible] erythrocytes. The osmotic resistance of erythrocytes [illegible] agrees with the results of other investigators. However, the osmotic resistance of erythrocytes in a physiological solution was lowered upon exposure to the same dose. This was probably due to the fact that plasma acted as a radioprotective agent. Vibration did [illegible] osmotic resistance of either irradiated or control erythrocytes. [illegible] figures and 1 table. [CD]

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M. V. Lomonosova (Moscow State University)

SUBMITTED: 25May64 ENCL: 00 SUB CODE: LS

NO REF SOV: 009 OTHER: 004 ATD PRESS: 3196

Card 2/2

KRIGER, Yu.A.; SVERDLOVA, Ye.A.

Dynamics of the change in properties of photosensibilized erythrocytes. Biofizika 10 no.1:176-178 '65. (MIRA 18:5)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova, Moskva.

KRIGER, Yu.A.; SVERDLOVA, Ye.A.

Effect of gamma rays and vibration on physicochemical properties of red blood corpuscles. Dokl. AN SSSR 160 no.3:713-716 Ja '65. (MIRA 18:3)

1. Moskovskiy gosudarstvennyy universitet. Submitted May 26, 1964.

LYAMIN, Yu.; UTKIN, E.; SVERDLYUK, Sh.; AKOSTA, S.; BELOVA, A.; BALDYGA, N; GOL'D, A.; ZVEZDINA, A.; PASECHNIK, N.; SHEYNGAUZ, S.

Revolving credit. Den. i kred. 17 no.4:52-61 Ap '59. (MIRA 12:8)

(Credit)

SVERDRUP, A.

Cooperation of the Scandinavian countries in the field of scientific and technological information. NTI no.9:46-48 '63. (MIRA 16:12)

SVEREPA, Otakar; DOKSANSKY, Vladimir

Use of calcium^{45} for examination of deposits precipitated from steel corrosion in water. Jaderna energie 8 np.12:434-436 '62.

1. Statni vyzkumny ustav ochrany materialu G.V.Akimova, Praha.

SVERGUN, I.P.

Tula Forests. Priroda 52 no.8:60-61 Ag '63. (MIRA 16:9)
(Tula Province--Forests and forestry)

SVERGUN, I.P.

Development of Quaternary relief and the problems of the geomorphological regionalization of Tula Province. Biul. MOIP Otd. geol. 40 no. 6:108-112 N-D '65 (MIRA 19:1)

EWT(1) Peb SSD/AFWL/RAEM(a)/AFETR/APGC(b)/ESD(gs)

ACCESSION NR: AP5000457 S/0109/64/009/012/2156/2165

AUTHOR: Agabekyan, A. S., Grasyuk, A. Z., Zibarev, I. G., Svergun, V. I.; Orayevskiy, A. N.

TITLE: Stabilization of unstable conditions in a two-level quantum generator 25

SOURCE: Radiotekhnika i elektronika, v. 9, no. 12, 1964, 2156-2165

TOPIC TAGS: quantum generator, quantum generator stabilization

ABSTRACT: Two methods of stabilizing automodulation conditions in a two-level quantum generator are theoretically considered: (1) Locking-in of the unstable generator by a low-power constant-amplitude generator; (2) Stabilization by means of a resonator-Q negative feedback. The effect of a constant-amplitude external force on the stability of the amplitude of oscillations is mathematically investigated. To stabilize automodulation conditions, the magnitude of the external force should exceed a certain threshold which depends on the parameters

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ACCESSION NR: AP5000457

of the generator being locked; hence, phase and amplitude locking-in must be distinguished. Four equations describing the stabilization by a resonator-Q negative feedback are set up and analyzed. Orig. art. has: 7 figures and 52 formulas.

ASSOCIATION: none

SUBMITTED: 31Jul63 ENCL: 00

SUB CODE: EC NO REF SOV: 005 OTHER: 001

Card 2/2

SOV/123-59-16-64677

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1959, Nr 16, p 143 (USSR)

AUTHOR: Svergunenko, A.A.

TITLE: Corrosion Protection of Equipment for the Production of Ethyl Benzene and Isopropyl Benzene

PERIODICAL: Byul. tekhn.-ekon. inform. Sovnarkhoz Stalinskogo ekon. adm. r-na, 1958, Nr 10, 14

ABSTRACT: The technology of using an anticorrosive bakelite coating with gauze for the corrosion protection of the inner surface of alkylation towers for the production of ethyl benzene and isopropyl benzene is described. The service life of the towers is increased from 45 to 90 days.

K.S.A.

Card 1/1

85732

S/170/60/003/007/015/018/XX
B019/B067

6,8000 (3201, 1099, 1162)

AUTHOR: Svergunenko, L. A.

TITLE: The Problem of the Effect of Heat Conduction on Sound Absorption in Crystals

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, 1960, Vol. 3, No. 7, pp. 117 - 120

TEXT: In the present study, the author uses the deformation tensor u_{ik} and the temperature T as thermodynamical variables. The free energy per unit volume of the crystal may then be expanded in a power series of u_{ik} and $\theta = T - T_o$: $F(T, u_{ik}) = F(T_o) + \frac{1}{2}\lambda_{iklm}u_{ik}u_{lm} + \alpha_{ik}u_{ik}\theta + \frac{1}{2}\gamma\theta^2$ (1). Here, $F(T_o)$ denotes the free energy of the sample without sound disturbances. For irreversible processes, the following thermodynamical formula is obtained: $\dot{\theta} = -\tau^{-1}(\theta - \bar{\theta})$ (3), where $\bar{\theta}$ is an equilibrium value of θ for given values of the deformation tensor. By introducing a new variable

Card 1/2

SVERGUNENKO, L. A.

" Effect of thermal conductivity on sound absorption in defect crystals."

Report presented at the 1st All-Union Conference on Heat- and Mass-Exchange, Minsk, BSSR, 5-9 June 1961.

SVERGUNENKO, L.A.

28436
S/185/61/006/002/008/020
D210/D304

24,1200(1109, 1147, 1327)

AUTHOR: Sverhunenko, L.O.

TITLE: Thermodynamic theory of sound absorption in crystals with defects

PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 6, no. 2, 1961, 197 - 201

TEXT: Existing thermodynamic theories of sound absorption in solids are based on adiabatic assumptions, and suffer from the lack of detailed knowledge of the factors representing the sound absorption due to plasticity. The author used a thermodynamic relaxation method to obtain a general expression for sound absorption in crystals with defects which reduces to the existing expression, with corresponding assumptions. The free energy of a crystal in which a sound wave is propagating was expanded into

$$2F(T, u_{lk}, \eta) = 2F(T_0, C_0) + \lambda_{iklm} u_{ik} u_{lm} + \gamma\Theta^2 + \beta\eta^2 + 2\alpha_{ik} u_{ik}\Theta + \\ + 2\delta_{lm} u_{lm}\eta + 2\Lambda\Theta\eta, \qquad (1)$$

Card 1/6

Thermodynamic theory of sound ...

N_1 number of defects formed; U_o - energy of one defect; N - number of atoms in the crystal; ϱ - density; μ - mass of one gram atom of the substance. The time vairation of θ and η were represented by

$$\dot{\theta} = -a_{11}(\theta - \bar{\theta}) - a_{12}(\eta - \bar{\eta}),$$
$$\dot{\eta} = -a_{21}(\theta - \bar{\theta}) - a_{22}(\eta - \bar{\eta}). \qquad (3)$$

where $\bar{\theta}$ and $\bar{\eta}$ are the equilibrium values corresponding to given values of the variable μ_{ik}. On applying a number of transformations F was obtained in a new form which was then differentiated with respect to the strain tensor to obtain the stress tensor σ_{ik}. The displacement vector for the sound deformation was expressed in the form

$$u_m = u_m^o \cos(\omega t - \vec{k}\vec{r}), \quad (m = 1, 2, 3) \qquad (19)$$

and the strain tensor in the form

Card 3/6

Thermodynamic theory of sound ...

of an isotropic medium, where the correlation between temperature and concentration can be neglected (small deviation from equilibrium), the absorption coefficient is given by

$$\Pi = \frac{1}{2\rho c^3}\left[\frac{(\alpha^T)^2 K^2 T}{C_v}\cdot\frac{\omega^2\tau_\Theta}{1+\omega^2\tau_\Theta^2}+\frac{(\alpha^c)^2 K^2 \mu C_0}{\rho RT}\cdot\frac{\omega^2\tau_\eta}{1+\omega^2\tau_\eta^2}\right], \quad (28)$$

K - bulk compression modulus; τ_Θ - temperature relaxation time; τ_η - concentration relaxation time. The first half of this equation represents the temperature coefficient Π_T which reduces to the standard equation

$$\Pi_T = \frac{(\alpha^T)^2 K^2 T}{2\,c^5 C_v^2}\,\omega^2\mathcal{H}, \quad (30)$$

when $\tau_\Theta = c^2 C_v/\omega^2\mathcal{H}$ and $\omega\tau_\Theta \gg 1$. There are 7 references: 5Soviet-bloc and 2 non-Soviet-bloc. The references to the English-language

Card 5/6

SVERGUNENKO, L.A.

Effect of electrons and quasi-particles of the lattice on the absorption of sound in solids. Izv.vys.uch.zav.; fiz. no.4:46-53 '62. (MIRA 15:9)

1. Dnepropetrovskiy meditsinskiy institut.
(Crystal lattices) (Absorption of sound)

On the absorption of sound waves ...

system of equations

$$\dot{\xi}_i = \frac{\partial \Phi}{\partial F_i} \quad (i = 1, 2, \ldots, n) \tag{1.3}$$

where

$$2\Phi = \Sigma L_{ik} F_i F_k, \quad F_k = \frac{\partial F}{\partial \xi_k}, \tag{1.4}$$

L_{ik} denoting the tensor of kinetic coefficients. System (1.3) corresponds to the approximation of irreversible thermodynamics. After calculations, one obtains for the acoustic-absorption coefficient:

$$\Pi = \frac{1}{2\rho v_s} \sum \beta_{ik}^{\mu} \{(\mathfrak{A} L \mathfrak{A} + \Omega^2 L^{-1})^{-1}\}_{\mu\nu} \beta_{lm}^{\nu} \frac{u_k^0 u_m^0 k_i k_l}{(u_m^0)^2}. \tag{1.20}$$

or, (setting $\tau = (L\mathfrak{A})^{-1}$),

$$\Pi = \frac{1}{2\rho v_s} \sum \beta_{ik}^{\mu} \{(\mathfrak{E} + \Omega^2 \tau^2)^{-1} \tau \mathfrak{A}^{(-1)}\}_{\mu\nu} \beta_{lm}^{\nu} \frac{u_k^0 u_m^0 k_i k_l}{(u_m^0)^2}, \tag{1.21}$$

where β and the elements α_{ik} of the matrix $\mathfrak{A}$ are the coefficients in the expression for the free energy, k_i are the components of the

wave vector, and τ is the relaxation-time matrix. Formulas (1.20) and (1.21) can be used in actual calculations for any number of parameters and any anisotropic medium; thereby it is required to know the free energy of the specimen under acoustic perturbations. These formulas are however rather cumbersome. Hence, the author derives a simpler formula, by setting L_{ik} and α_{ik} equal to zero. The above formulas are used for calculating the acoustic-absorption coefficient in binary solid solutions. A substitutional solid solution is considered, which is of β-brass type and can be ordered. Thereby the free energy is written in the Gors'kiy-Bragg-Williams approximation. Formulas are obtained for the sound absorption in such solutions. These formulas are used in the analysis of sound absorption, due to the relaxation of the degree of long-range order η, for two limiting cases (when the parameter η approaches zero and unity, respectively). The absorption maximum was observed at a temperature $T_m = 315^{\circ}C$, by setting the maximum damping-decrement $\Delta_{max} = 5.2 \cdot 10^{-3}$. The calculated and experimental values of the decrement were of the same order of magnitude. Formulas are obtained for the temperature dependence of the sound-absorption maximum and for the

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S/185/62/007/010/010/020
D234/D308

24,7300

AUTHOR: Sverhunenko, L. O.

TITLE: Effect of adding a third element on the absorption of sound in binary alloys

PERIODICAL: Ukrayins'kyy fizychnyy zhurnal, v. 7, no. 10, 1962, 1110-1116

TEXT: Using an expression for sound absorption obtained by him previously (Ukr. fiz. zh., 7, no. 5, 1962), the author considers the case when the atoms of the third element, C, are situated at the lattice nodes of binary alloys A-B having equal number of nodes of both kinds, the nodes of each kind being surrounded only by those of the other. The free energy is taken in an approximation accounting for correlation in the distribution of the atoms. Assuming that the distant order in the distribution of C atoms remains nearly unchanged during the propagation of a sound wave, it is concluded that there is at least one absorption maximum near the temperature of transition from order to disorder. The temperature

Card 1/2

at which this maximum occurs is different for the A-B alloy with and without addition of C. The author also studies the case when C atoms are at the octahedral insterstitial points of the A-B alloy having a body-centered cubic lattice of ß-brass type. The free energy is taken in an approximation not accounting for correlation. The presence of C atoms does not affect the sound absorption at all. If the redistribution of C atoms is taken into account, the absorption due to it is equal to zero in the case of small concentrations of C, the C atoms being situated at interstitial points of one kind only. The author thanks M. A. Kryvohlaz for advice.

ASSOCIATION: Dnipropetrovs'kyy medychnyy instytut (Dnepropetrovsk Medical Institute)

SUBMITTED: February 26, 1962

ACCESSION NR: AR4046011 S/0058/64/000/007/E075/E075

AUTHOR: Svergunenko, L. A.

SOURCE: Ref. zh. Fizika, Abs. 7E577

TITLE: Contribution to the theory of internal friction in metals and alloys in the presence of several relaxing parameters

CITED SOURCE: Sb. Relaksats. yavleniya v. met. i splavakh. M., Metallurgizdat, 1963, 40-45

TOPIC TAGS: internal friction, relaxation kinetics, kinetic equation, specific heat, ordered alloy

TRANSLATION: The author points out the expediency of analyzing internal friction (IF) within the framework of a theory with many relaxation parameters. Relations are presented, describing the magnitude of the IF in an arbitrary anisotropic medium in terms of its

Card 1/2

ACCESSION NR: AR4046010 S/0058/64/000/007/E067/E067

SOURCE: Ref. zh. Fizika, Abs. 7E514

AUTHOR: Svergunenko, L. A.

TITLE: On the influence of electrons and quasiparticles of the lattice on the internal friction in metals and alloys

CITED SOURCE: Sb. Relaksats. yavleniya v met. i splavakh. M., Metallurgizdat, 1963, 53-54

TOPIC TAGS: internal friction, crystal lattice structure, kinetic equation, relaxation kinetics, electron phonon collision

TRANSLATION: Formulas for estimating the influence of electrons and quasiparticles of the crystal lattice on the internal friction (IF) in metals and alloys are proposed on the basis of the thermodynamics of irreversible processes. The use of these formulas is possible if

Card 1/2

L 18086-63 EWP(q)/EWT(m)/EDS AFFTC/ASD JD/JG
ACCESSION NR: AP3005308 S/0181/63/005/008/2052/2058

AUTHOR: Svergunenko, L. A.

TITLE: Effect of ordering on internal friction in alloys of the type Fe_3Al

SOURCE: Fizika tverdogo tela, v. 5, no. 8, 1963, 2052-2058

TOPIC TAGS: ordering, alloy, Fe, Al, transition, relaxation, internal friction, thermal expansion, elastic modulus

ABSTRACT: On the basis of a theory with many relaxation parameters (L. A. Svergunenko, Izv. vuzov SSSR, Fizika, No. 4, 46, 1962), the author investigates internal friction in alloys of the Fe_3Al type, resulting from relaxation of of higher-order parameters. The relationship thus obtained expresses a value of internal friction Q^{-1} through the physical characteristics of the alloy (elastic modulus, coefficient of thermal expansion, parameters of order) and permits the calculation of numerical values of Q^{-1} for various temperatures. Numerical computations for Fe_3Al of stoichiometric composition indicate that at the temperatures of transition T_1 and T_2 internal friction may reach values on

Card 1/2

L 18086-63
ACCESSION NR: AP3005308

the order of 10^{-1} to 10^{-2}. Orig. art. has: 29 formulas.

ASSOCIATION: Dnepropetrovskiy meditsinskiy institut (Dnepropetrovsk Medical Institute)

SUBMITTED: 29Apr62 DATE ACQ: 06Sep63 ENCL: 00

SUB CODE: PH, ML NO REF SOV: 006 OTHER: 004

Card 2/2

SVERGUNENKO, L.A. [Sverhunenko, L.O.]

Characteristics of the deformation of solid bodies under the combined effect of diffusion and heat conduction. Dop. AN URSR no.4:460-464 '65. (MIRA 18:5)

1. Dnepropetrovskiy meditsinskiy institut.

SVERIDENKO, P. A.

"Use of the Theory of Rotating Poles to Analyze Asynchronous Machines with Single-Phase Stator and Rotor", Elektrichestvo, No 7, 1948, Prof., Dr. Tech. Sci. Moscow. -c1948-.

SVERKALOV, V.

Youth reveres the memories of heroes who fell in combat. Voen. znan. 36 no.1:14 Ja '60. (MIRA 12:12)

1.Sekretar' Ul'yanovskogo oblastnogo komiteta Vsesoyuznogo Leninskogo Kommunisticheskogo soyuza molodezhi.
(Heroes)

Investigation of multilayer shields in coaxial cables

thin shields. The shielding factor of the examined three-layer shield, such as finally found by the authors, is:

$$S_{123} = \frac{1}{\operatorname{ch} k_1 t_1 \operatorname{ch} k_2 t_2 \operatorname{ch} k_3 t_3} \frac{1}{\left(1 + \frac{Z_{m1}}{Z_{m2}} \operatorname{th} k_1 t_1 \operatorname{th} k_2 t_2\right)\left(1 + \frac{Z_{m2}}{Z_{m3}} \operatorname{th} k_2 t_2 \operatorname{th} k_3 t_3\right)}$$

where $K = \sqrt{i\omega\mu\sigma}$ are the eddy currents coefficients of the corresponding shield layers; t are the thicknesses of the shield layers; $Z_m = \sqrt{\frac{i\omega\mu}{\sigma}}$ are the wave impedances of the metal of the corresponding layers. On the basis of this formula, the authors obtain also analogous formulae for the shielding factor of the two-layer and one-layer shields. The authors next deal with the calculation of the "shielding attenuation" in the case of the three-layer (copper-steel-copper) shields and for different thicknesses of the copper and steel layers, the total thickness of the shield being constant and equal to 0.2 mm; this calculation was made for the 60 - 550 kc/s range. Two graphs are presented, giving, respectively, the frequency dependence of the attenuation and its dependence on the increase of the thickness of the steel layer. Another graph shows

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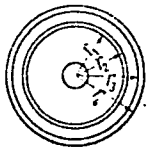
S/106/62/000/005/006/007
Investigation of multilayer shields in coaxial cables A055/A101

the relative importance of the "absorption attenuation" and the "reflection attenuation" in the case of a three-layer aluminum-steel-aluminum shield. At the end of the article, the authors reproduce a table giving the measured crosstalk attenuation between small coaxial cables, intended for the h-f multiplexing system K-300. The Soviet personality mentioned in the article is V. Mashkova. There are 5 figures and 2 tables.
SUBMITTED: December 15, 1961

Figure 2: 

4

Card 3/3

SRAPIONOV, Onik Sergeyevich; YEREMINA, Zinaida Petrovna; SVERKALOVA, Aleksandra Pavlovna; KUZNETSOV, M.A., otv.red.; SAKHAROVA, Ye.D., red.

[Business accounting within communication system enterprises] Vnutriproizvodstvennyi khozraschet v predpriiatiiakh sviazi. Moskva, Izd-vo "Sviaz'" 1964. 36 p. (MIRA 17:5)

GRODNEV, I.I., doktor tekhn.nauk; LYUBIMOV, K.A., kand.tekhn.nauk; SVERKALOVA, A.P., inzh.

Small-sized coaxial cable. Elektrotekhnika 35 no.3:46-47 Mr '64. (MIRA 17:5)

SVERKO., J.

Interdepartmental cost accounting in the Sverma Iron Works in Podbrezova. p. 344

TECHNICKA PRACA. Czechoslovakia, Vol. 7, No. 8, August 1955

Monthly List of East European Accessions, (EEAI), LC. Vol. 8, No. 9, September 1959
Uncl.

SVERKUNOV, A., tekhnik

Scraper conveyer operation control. Mast.ugl.4 no.7:20 Jl'55. (MLRA 8:10)
(Conveying machinery)

SVERKUNOV, A., gornyy tekhnik.

Cable pusher. Mast.ugl. 5 no.7:21 Jl '56. (MIRA 9:9)
(Mine railroads)

SVERKUNOV, A.I., gornyy tekhnik.

Success of miners of the Darasun Mining Administration. Gor. zhur. no.7:63 Jl '56. (MLRA 9:9)

1. Vostochnosibirskoye otdeleniye nauchno-tekhnicheskogo obshchestva tsvetnoy metallurgii.
(Darasun--Gold mines and mining)

SVERKUNOV, A.I.

V.G. Spisovskii's mine surveying instruments. Biul.tekh.-ekon. inform. no.6:8-9 '58. (MIRA 11:8)
(Mine surveying)

SVERKUNOV, A.I.

"Mine surveyor" designed by V.G. Spisovskii. Biul. TSIIN tsvet. met. no. 7:7-9 '58. (MIRA 11:7)
(Surveying--Instruments)

SVERKUNOV, B., prepodavatel'

When everybody is active. Prof.-tekh. obr. 21 no.10:20 O '64. (MIRA 17:11)

1. Gorodskoye professional'no-tekhnicheskoye uchilishche No.17, Novosibirsk.

AUTHOR: Sverkunov, D. (RAOVAP) SOV/107-58-10-14/55

TITLE: Komsomol Radio-Stations (Komsomol'skiye radiostantsii)

PERIODICAL: Radio, 1958, Nr 10, p 12 (USSR)

ABSTRACT: The author describes the growth and work of ultra-short wave radio stations operated by Komsomol members in Chita.

Card 1/1

MALINOVSKIY, A.G., inzhener-podpolkovnik; SVERKUNOV, L.P., inzhener-mayor

Automation in processing radar information (as revealed by foreign press data). Vest. protivovozd. obor. no.8:47-51 Ag '61. (MIRA 14:8)
(Automation) (United States—Radar, Military)

SVERLOV, Aleksandr Andreyevich, kand. tekhn. nauk, dots.; SERGEYEVA, I.N., red.

[Technology of metals; processes of especially fine finishing of rolling stock parts. Lectures for students specializing in "Diesel locomotives and their maintenance," "Manufacture of railroad cars and their maintenance," "Electrification of railroads," and "Construction and road machinery and equipment"] Tekhnologiia metallov; protsessy osobo tonkoi chistovoi obrabotki detalei podvizhnogo sostava. Lektsii dlia studentov spetsial'nostei "Teplovozy i teplovoznoe khoziaistvo," "Vagonostroenie i vagonnoe khoziaistvo," "Elektrifikatsiia zheleznodorozhnogo transporta," "Stroitel'nye i dorozhnye mashiny i oborudovanie." Moskva, Vses. zaochnyi in-t inzhenerov zhel.-dor. transporta, 1964. 55 p. (MIRA 18:4)

LEBEDEV, A. (Pavlovo Gor'kovskoy obl.); SVERLOV, N. (Kirillov Vologodskoy obl.); BATMANOV, G. (Tambov); MOKROUSOV, Ye. (Moskovskaya obl.)

Repaired by amateurs. Radio no.9:34 S '64. (MIRA 17:12)

L 10805-65 EWT(m)/EPR/EWP(k)/EWP(b) Pf-4/Ps-4 ASD(m)-3 JD/HW

ACCESSION NR: AT4012710 S/2981/63/000/002/0031/0040

AUTHOR: Kovrizhny*kh, V. G.; Ponagaybo, Yu. N.; Sverlov, V. I.

TITLE: Technology of extruding large, flat or round, SAP bars

SOURCE: Alyuminiyevy*ye splavy*. Sbornik statey, no. 2. Spechenny*ye splavy*. [illegible]

[illegible], SAP [illegible] alloy

ABSTRACT: The authors describe a new process for the extrusion of flat or round SAP bars by [illegible] briquetting. Although existing machinery can be used, the extru- [illegible] aluminum alloys. [illegible] should [illegible] and the [illegible] /minute, since lower [illegible] higher rates favor the [illegible] beneficial effect. [illegible] apparently because of the [illegible] temperature. The mechanical properties of SAP bars extruded under the proper conditions show no significant anisotropy and are not affected

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L 10805-65
ACCESSION NR: AT4012710

9

by annealing at 500C for as long as 100 hrs. or even by being held at 500C under [illegible] stress equal to half the yield point for up to 580 hours. The surface of etched [illegible] which gave a positive [illegible] balls and [illegible]ing of [illegible] structure showed no grains, only alumina particles uni[illegible] distributed throughout the aluminum matrix. This method was used in the [illegible] flat bars up to 30 mm thick and 405 mm wide, extruded from round SAP billets 135-500 mm in diameter and 250--900 mm long with reductions of 88--94%. "Engineers V. M. Baranchikov, V. A. [illegible], [illegible] Bulgakov, O. I. A[illegible], Ye. S. Vo[illegible]kov, B. I. Pasyknkov, M. V. [illegible] Ivanova [illegible] the work [illegible] with technologist [illegible]. Orig. art. has: 1 table and 3 illustrations.

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00 SUB CODE: MM

NO REF SOV: 001 OTHER: 000

Card 2/2

SVERICV, V.N.; SERYY, N.V.

Universal circuit for the control of spring load drives. Prom. energ. 19 no.12:15-16 D '64. (MIRA 18:3)

SVERLOV, Vladimir Sergeyevich

(Leningrad Sci Res Inst of Expertise of Work Fitness and Work Organization of Invalids) - Academic degree of Doctor of Pedagogical Sciences, based on his defense, 26 April 1955, in the Council of the Inst of Psychology of theAcad of Pedagogical Sci RSFSR, of his dissertation entitled: "Orientation of the Blind."

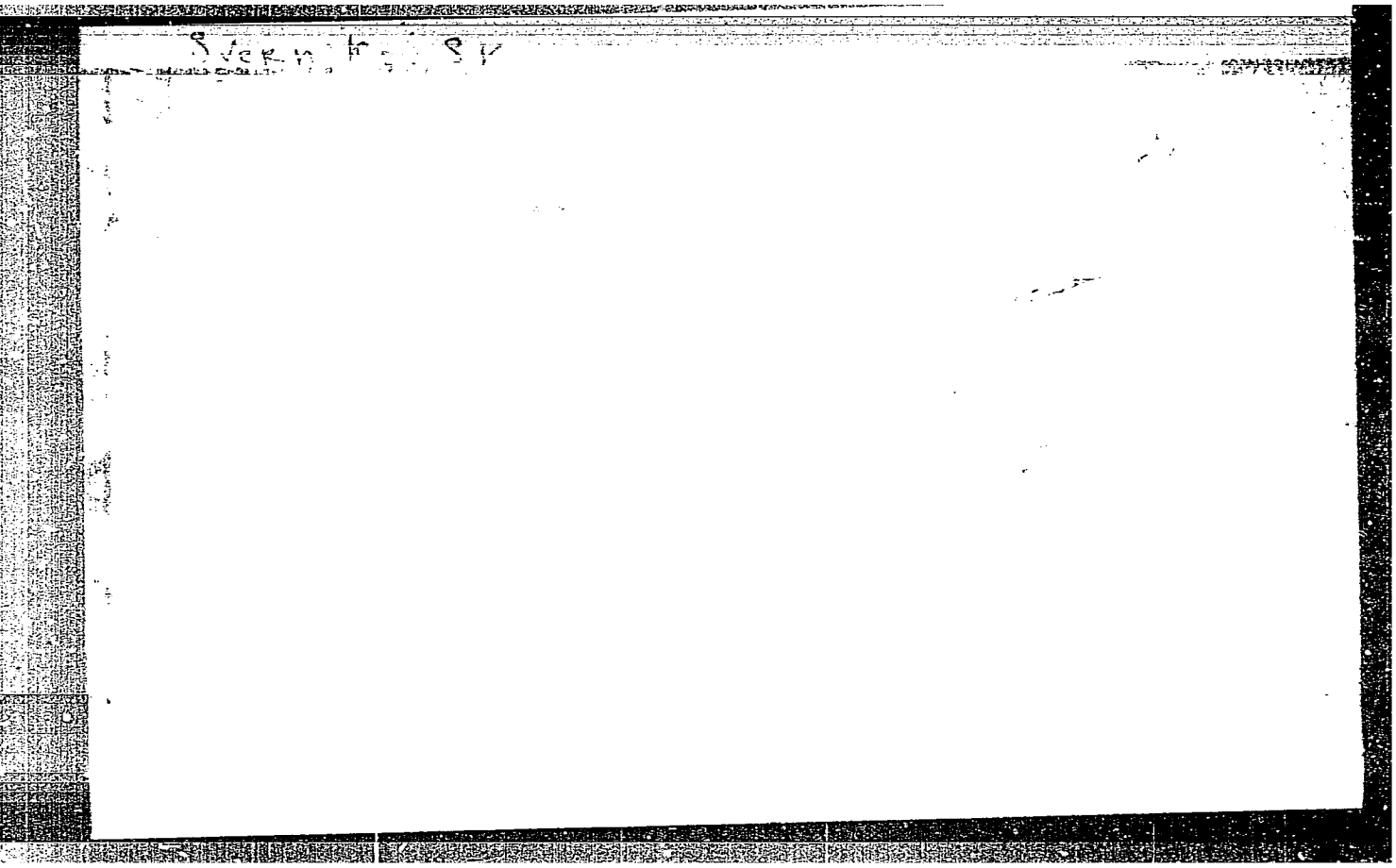
Academic degree and/or title: Doctor of Sciences

SO: Decisions of VAK, List no. 26, 17 Dec 55, Byulleten' MVO SSSR, Uncl. JPRS/NY 548

KHAYRETDINOV, I.A.; DOKUKIN, G.P.; PROKHOROV, V.G.; SVERLOVA, V.N.

Use of gas testing for prospecting in the fault areas of the Western Sayan Mountains. Geol. i geofiz. no.10:135-137 '65. (MIRA 18:12)

1. Krasnoyarskoye otdeleniye Sibirskogo nauchno-issledovatel'skogo instituta geologii, geofiziki i mineral'nogo syr'ya. Submitted March 25, 1964.



AID P - 3469

Subject : USSR/Aeronautics

Card 1/1 Pub. 135 - 4/20

Author : Svershinskiy, R., Eng. Maj.

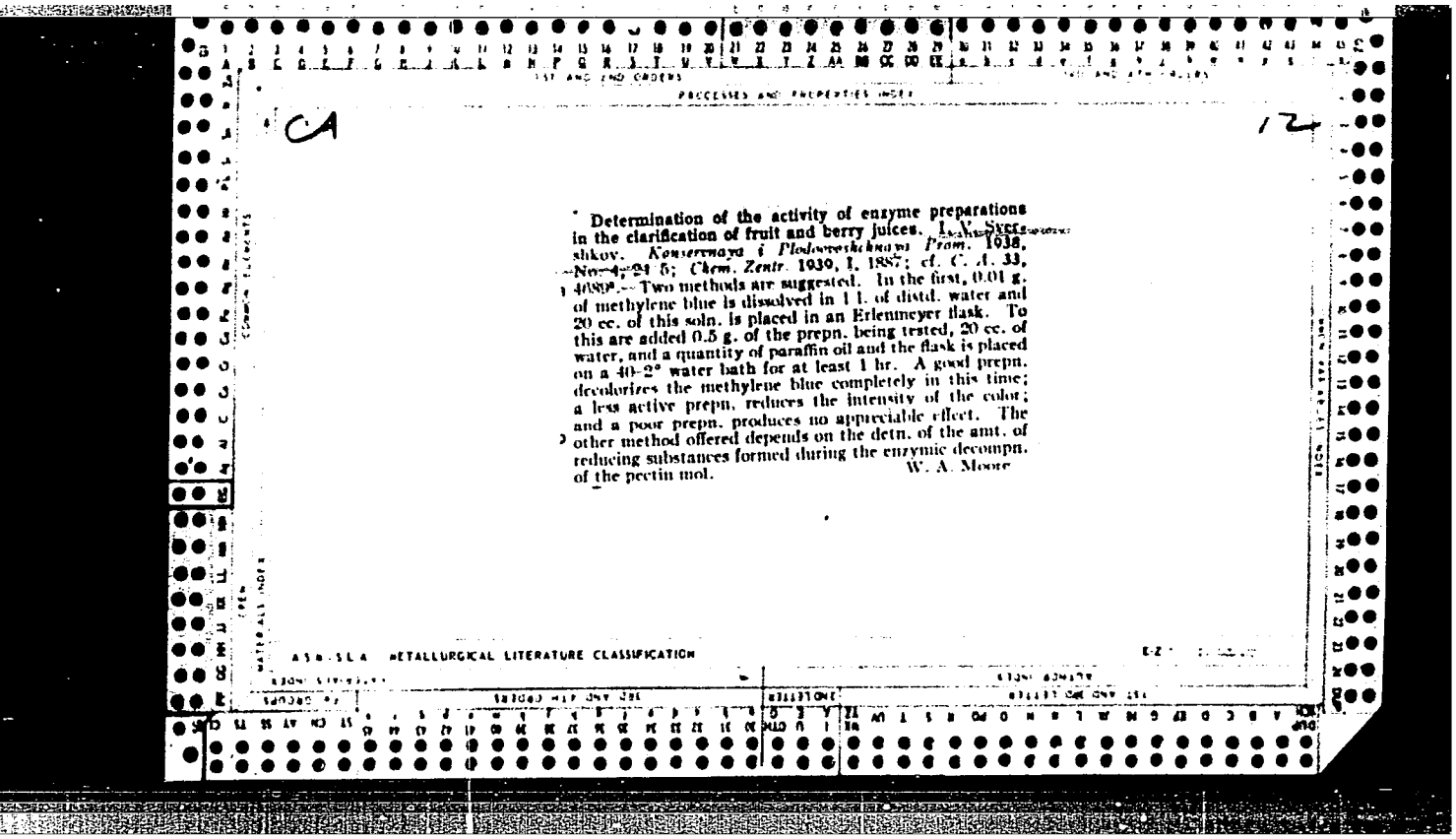
Title : Calculation for altitude in bombing with a radar sight

Periodical : Vest. voz. flota, 12, 17-23, D 1955

Abstract : The author discusses a formula established by Krylov, N., (this journal, No. 11, 1954), for the determination of errors due to the miscalculation of altitude. Examples, diagrams.

Institution : None

Submitted : No date



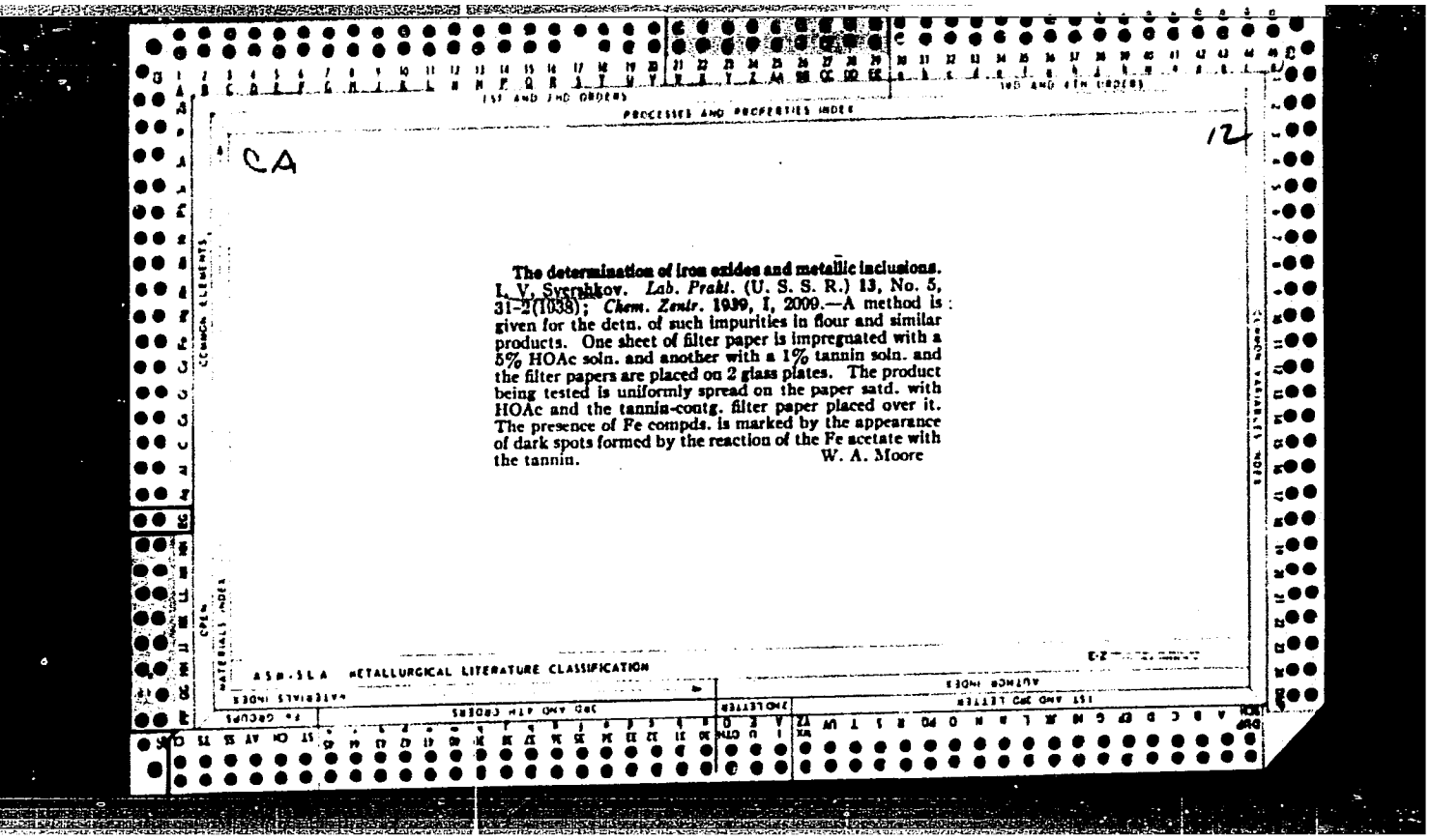
CA

12

Determination of the activity of enzyme preparations in the clarification of fruit and berry juices. I. V. Svets-shkov. *Konservnaya i Plodovoshchnaya Prom.* 1938, No. 4, 24-5; *Chem. Zentr.* 1939, I, 1887; cf. *C. A.* 33, 4089⁸. — Two methods are suggested. In the first, 0.01 g. of methylene blue is dissolved in 1 l. of distd. water and 20 cc. of this soln. is placed in an Erlenmeyer flask. To this are added 0.5 g. of the prepn. being tested, 20 cc. of water, and a quantity of paraffin oil and the flask is placed on a 40–2° water bath for at least 1 hr. A good prepn. decolorizes the methylene blue completely in this time; a less active prepn. reduces the intensity of the color; and a poor prepn. produces no appreciable effect. The other method offered depends on the detn. of the amt. of reducing substances formed during the enzymic decompn. of the pectin mol.

W. A. Moore

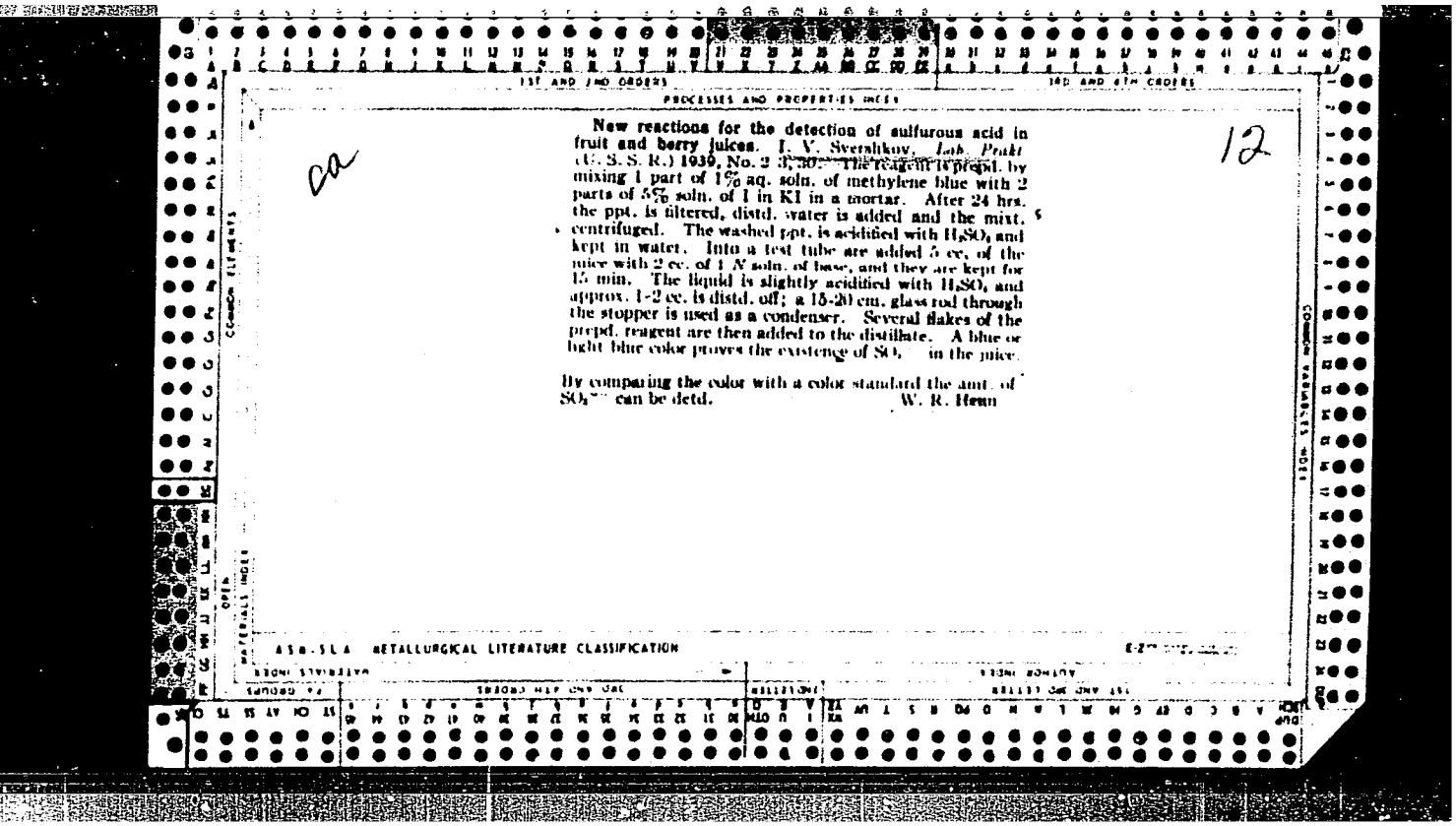
ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION



CA

12

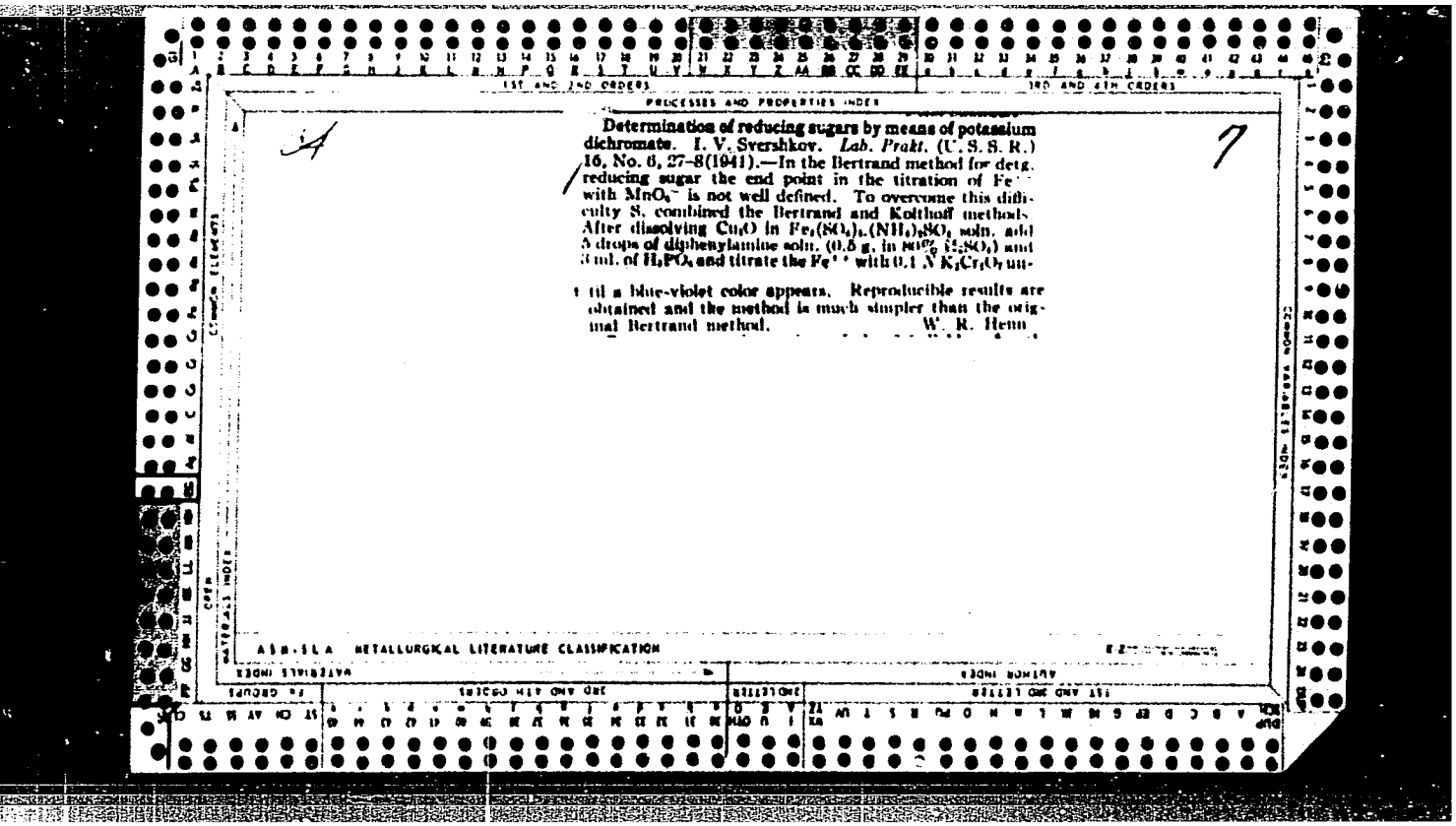
The determination of iron oxides and metallic inclusions. I. V. Svershkov. *Lab. Prakt.* (U. S. S. R.) 13, No. 5, 31–2(1938); *Chem. Zentr.* 1939, I, 2009.—A method is given for the detn. of such impurities in flour and similar products. One sheet of filter paper is impregnated with a 5% HOAc soln. and another with a 1% tannin soln. and the filter papers are placed on 2 glass plates. The product being tested is uniformly spread on the paper satd. with HOAc and the tannin-contg. filter paper placed over it. The presence of Fe compds. is marked by the appearance of dark spots formed by the reaction of the Fe acetate with the tannin. W. A. Moore



New reactions for the detection of sulfurous acid in fruit and berry juices. I. V. Svershkov. *Lab. Prakt.* (U. S. S. R.) 1939, No. 2 3-30. The reagent is prepd. by mixing 1 part of 1% aq. soln. of methylene blue with 2 parts of 5% soln. of I in KI in a mortar. After 24 hrs. the ppt. is filtered, distd. water is added and the mixt. centrifuged. The washed ppt. is acidified with H_2SO_4 and kept in water. Into a test tube are added 5 cc. of the juice with 2 cc. of 1 *N* soln. of base, and they are kept for 15 min. The liquid is slightly acidified with H_2SO_4 and approx. 1-2 cc. is distd. off; a 15-20 cm. glass rod through the stopper is used as a condenser. Several flakes of the prepd. reagent are then added to the distillate. A blue or light blue color proves the existence of SO_3 in the juice.

By comparing the color with a color standard the amt. of SO_3^{--} can be detd.

W. R. Henn

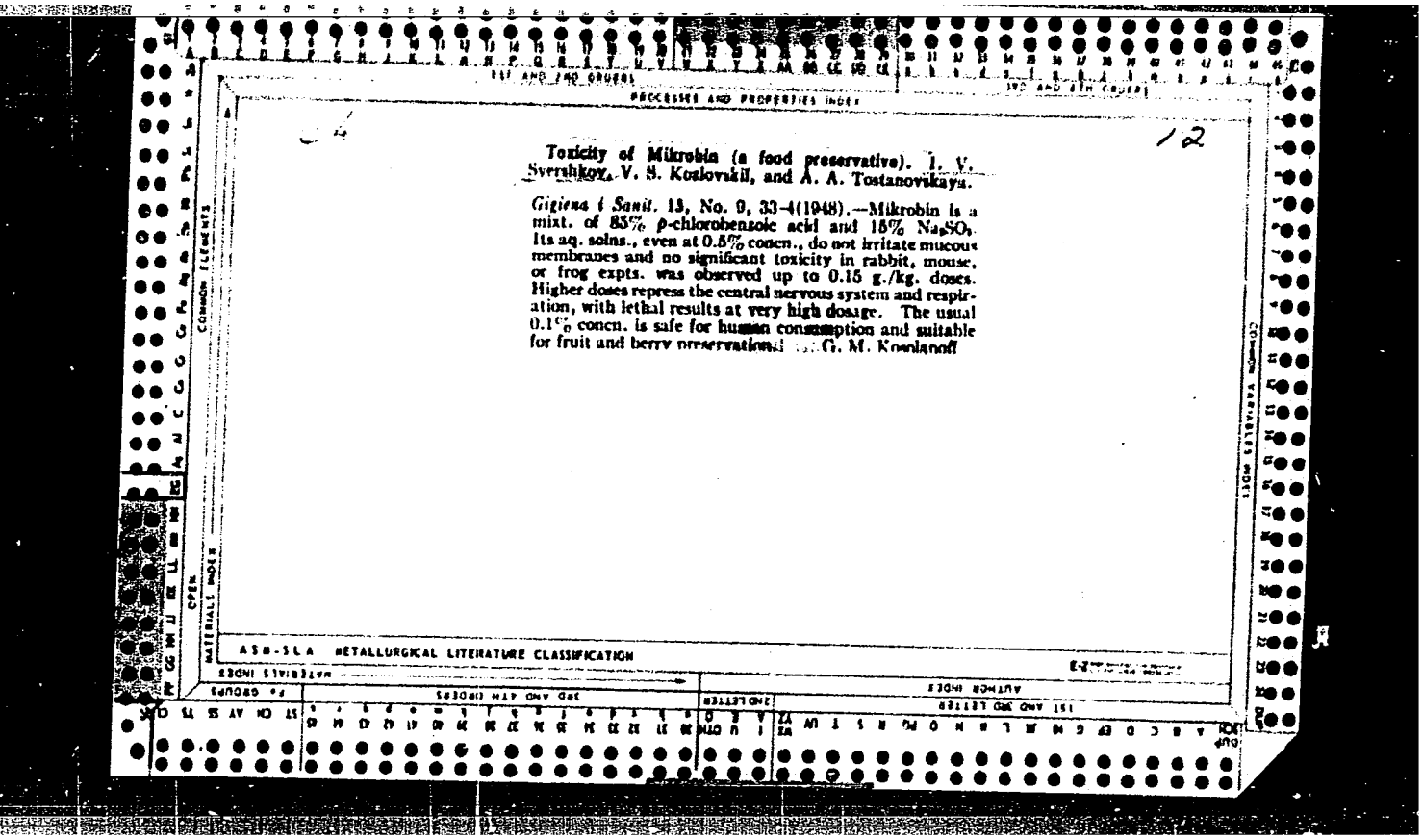


Determination of reducing sugars by means of potassium dichromate. I. V. Svershkov. *Lab. Prakt.* (U. S. S. R.) 16, No. 6, 27–8(1941).—In the Bertrand method for detg. reducing sugar the end point in the titration of Fe^{++} with MnO_4^- is not well defined. To overcome this difficulty S. combined the Bertrand and Kolthoff methods. After dissolving Cu_2O in $Fe_2(SO_4)_3$–$(NH_4)_2SO_4$ soln. add 5 drops of diphenylamine soln. (0.5 g. in 80% H_2SO_4) and 3 ml. of H_3PO_4 and titrate the Fe^{++} with 0.1 N $K_2Cr_2O_7$ until a blue-violet color appears. Reproducible results are obtained and the method is much simpler than the original Bertrand method. W. R. Henn

CA

12

Hygienic evaluation of sulfoformite. I. V. Svetshkov and V. S. Kozlovskii (Ukrain. Nutrition Research Inst., Kiev). *Gigiena i Sanit.* 11, No. 6, 36–7(1946).– Sulfoformite method of fruit preservation was found to be satisfactory for "dry" sulfite treatment of the fruit. No accumulation of N oxides in the treatment chamber was noted, when the following mixt. was used as the SO_2 source: 72% S, 18% $NaNO_3$, 10% sawdust. G. M. K.



Toxicity of Mikrobin (a food preservative). I. V. Svershkov, V. S. Kozlovskii, and A. A. Tostanovskaya.

Gigiena i Sanit. 13, No. 9, 33–4(1948).—Mikrobin is a mixt. of 85% *p*-chlorobenzoic acid and 15% Na_2SO_3. Its aq. solns., even at 0.5% concn., do not irritate mucous membranes and no significant toxicity in rabbit, mouse, or frog expts. was observed up to 0.15 g./kg. doses. Higher doses repress the central nervous system and respiration, with lethal results at very high dosage. The usual 0.1% concn. is safe for human consumption and suitable for fruit and berry preservation. G. M. Kosolapoff

SVERSHKOV, I.V.

USSR.

Hygienic evolution of maleic esters used as antioxidants. I. V. Svershkov and A. A. Tostanovskaya (Ukrain. Sci. [illegible] Nutrition, Kiev). *Voprosy Pitaniya* 12 [illegible] 1953. Toxic doses of Me maleinate (I) and [illegible] fumarate (II) given directly per os to different animals are the following: I 0.5-1 g./kg. body wt. of guinea pig; II 1-1.5 g./kg., for the mixt. of I and II 1.25-2 g./kg.; however, the 1:1 mixt. of I and II in the amt. of 0.5 g./kg. body wt. was without any toxic effect. On feeding cats and dogs during 40-50 days with margarine contg. 0.01% of the mixt. of I and II in the amt. of 4-6 g. of the mixt./kg. body wt., some pathol. effects were noted; on feeding 1-2 g. of the mixt./kg. body wt. the exptl. animals behaved normally. The antioxidants I and II possess also fungicidal properties. The addn. of [illegible] I and II [illegible] margarine stored in a refrigerator [illegible] growth of fungi for 45 days, while the [illegible] without the addn. of the antioxidants [illegible] with a compact mycelium within 28 days, which penetrated in some places as deep as 5 cm. Thus I and II in the amts. of 0.005% each, can be successfully used as antioxidants and preservatives of margarine [illegible] margarine so treated was found to be also harmless to human beings.

F. Wierbicki

SVERSHKOV, I. V.

Chemical composition of vegetables grown in greenhouses. I. V. Svershkov and D. S. Dukhan (Nutrition Inst., Kiev). *Voprosy Pitaniya* 15, No. 5, 89–90(1956).—Moisture, dry substance, invert sugar, sucrose, Ca, Mg, P, K, Fe, ascorbic acid, carotene, and thiamine are given for red cabbage, cucumbers, sweet pepper, and egg plants grown in green houses and in the field. All vegetables grown in greenhouses, except red cabbage, had superior nutritional value.

E. Wierbicki

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SVERSHKOV, I.V.

Making noise-producing parts of children's toys from nondecaying material. Gig. i san. 21 no.11:78-79 N '56. (MIRA 10:2)

1. Iz laboratorii pishchevoy khimii Ukrainskogo nauchno-issledovatel'skogo instituta pitaniya.
(TOYS)

SVERSHKOV, I.V., dotsent; BIRKOVSKIY, Yu.Ye.

Prevention of dermatitis in fishery workers processing fresh and frozen gobies. Vest.derm. i ven. 31. no.3:51-52 My-Je '57. (MIRA 10:11)

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta pitaniya i iz Kiyevskogo nauchno-issledovatel'skogo instituta epidemiologii i mikrobiologii.

(SKIN--DISEASES) (FISHERIES--HYGIENIC ASPECTS)

SVERSHKOV, I.V.

Sanitary inspection of food products exposed to ammonia gas.
Gig. i san. 23 no.8:79 Ag '58 (MIRA 11:9)

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta.
(AMMONIA)
(FOOD CONTAMINATION)

SVERSHKOV, I.V.

Identifying glasslike bodies in frozen sugared fruit and berries. Gig. i san. 24 no.9:82 S '59. (MIRA 13:1)

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta pitaniya.
(FRUIT, FROZEN)

SVERSHKOV, I.V.; DUBRIYER, I.B.; KAZNACHEY, P.Ya.

Causes of beet-red staining in fermented vegetables. Vop.pit. 19 no.1:90-91 Ja-F '60. (MIRA 13:5)

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta pitaniya Ministerstva zdravookhraneniya USSR, Kiyev.
(VEGETABLES)

SVERSTYUK, Ye.O. [Sverstiuk, IE.O.]

Peculiarities in the understanding of older pupils of the motivations for the conduct of literary figures. Nauk.zap.Nauk.-dosl.inst.psykhol. 10:91-139 '59. (MIRA 13:5)
(Comprehension)
(Characters and characteristics in literature)

SVERSTYUK, Ye.O. [Sverstiuk, IE.O.]

Pecularities in the understanding by older pupils of motivations in the conduct of characters. Nauk. zap. Nauk.-dosl. inst. psykhol. 11:156-159 '59. (MIRA 13:11)

1. Institut psikhologii, Kiyev.
(Comprehension)

SVERTSOV, NIKOLAI ALEKSEEVICH

SVERTSOV, NIKOLAI ALEKSEEVICH. Puteshestvie po Turkestanskomu kraiu. Izd. 2-e. Moskva, Geografgiz, 1947. 304 p. DLC: DK854.S47 1947
ICU MH NGrnUN NN NNC WaU

SO: LC, Soviet Geography, Part I, 1951, Uncl.

SVERZHEVSKIY, V.L., geolog; POLOZHAY, G.T., geolog; BOGODEROV, M.A., geolog

Physicomechanical properties of rocks at great depths. Ugol' Ukr. 7 no.6:19-21 Je 63. (MIRA 16:8)

1. Trest Artemgeologiya.

SVERZHEVSKIY, V.L.; POLOZHAY, G.T.; PORTNOY, N.Z.; BOGODEROV, M.A.; MARTYNYUK, V.V.

Behavior of roof rock in coal mine stopes. Ugol' 39 no.10:9-12 O '64. (MIRA 17:12)

1. Trest Artemgeologiya.

NIKOLIN, [illegible], kand. tekhn. nauk; LYSIKOV, B.A., inzh.; SVERZHEVSKIY, V.L., inzh.

Strength properties of sandstone at great depths. Shakht. stroi. 9 no.3:15-17 Mr '65. (MIRA 18:7)

1. Makeyevskiy nauchno-issledovatel'skiy institut po bezopasnosti rabot v gornoy promyshlennosti (for Nikolin). 2. Donetskiy politekhnicheskiy institut (for Lysikov). 3. Trest Artemgeologiya (for Sverzhevskiy).

SVERZHINSKAYA, B.M.

Intestinal invaginations in capillary toxicosis (Schoenlein-Henoch purpura). Pediatriia 39 no.5:60-62 S-O '56. (MLRA 10:1)

1. Iz khirurgicheskogo otdeleniya (zav. D.B.Avidon) detskoy bol'nitsy imeni K.A.Raukhfusa (glavnyy vrach V.A.Vinogradova) na baze kafedry khirurgii detskogo vozrasta (zav. kafedroy - prof. A.V.Shatskiy) Leningradskogo pediatricheskogo meditsinskogo instituta.

(PURPURA, NONTHROMBOPENIC, in infant and child, with intussusception (Rus))

(INTESSUSCEPTION, in infant and child, in non-thromboponic purpura (Rus))

SVERZHINSKAYA, Ye. A.

PA-2T72

USSR/Minerals - Chemical Analysis Mar 1946
Monazite

"Chemical Composition of the Monazite from Pegmatites at the Station Alakurti (Karelo-Finnish SSR," E A Sverzhinskaya, 2 pp

"Zap Mineral Obshch USSR" Vol 65, No 3

In percent: SiO_2-1.32, TiO_2 - traces, Al_2O_3-0.83 FeO_3-0.28, CaO-0.42, MgO-0.38, P_2O_5-28.55, Ta_2O_5+Nb_2O_5-0.15, ΣTR-61.77, H_2O etc.

2T72

AID P - 5123

Subject : USSR/Aeronautics - bombing

Card 1/1 Pub. 135 - 8/26

Author : Sverzhinskiy, R. M., Eng.-Maj.

Title : Elimination of range errors with the aid of radar bombsight during bombing.

Periodical : Vest. vozd. flota, 10 43-48, O 1956

Abstract : Analysis of bombing errors in range when the synchronized radar bombsight PSBN-m is used. Four diagrams, 2 graphs, 1 table. The article merits attention.

Institution : None

Submitted : No date

NEVZOROV, L.A., inzh.; SVESHCHINSKIY, I.B., inzh.

Ways to improve the assembly qualities of tower cranes with a hoisting boom. Stroi. i dor. mash. 7 no.9:8-10 S '62. (MIRA 15:10)

(Cranes, derricks, etc.)